



ADOPTED

BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES

35 June 19, 2012

Sachi A. Hamai
SACHI A. HAMAI
EXECUTIVE OFFICER

**Los Angeles County
Board of Supervisors**

June 19, 2012

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First District

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The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, California 90012

Dear Supervisors:

**AUTHORIZE PURCHASE OF HARDWARE
(ALL SUPERVISORIAL DISTRICTS)
(3 VOTES)**

**CIO RECOMMENDATION: APPROVE (X) APPROVE WITH MODIFICATION
()
DISAPPROVE ()**

Mitchell H. Katz, M.D.
Director

Hal F. Yee, Jr., M.D., Ph.D.
Chief Medical Officer

Christina Ghaly, M.D.
Deputy Director, Strategic Planning

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www.dhs.lacounty.gov

*To ensure access to high-quality,
patient-centered, cost-effective health
care to Los Angeles County residents
through direct services at DHS facilities
and through collaboration with
community and university partners.*

SUBJECT

Authorize a hardware purchase for the Department of Health Services
Emergency Department Information System to support Emergency
Department operations at LAC+USC Medical Center, Harbor-UCLA Medical
Center, and Olive View-UCLA Medical Center.

IT IS RECOMMENDED THAT YOUR BOARD:

Authorize the Internal Services Department (ISD), as the County's Purchasing
Agent, to proceed with the acquisition and installation of hardware for the
Emergency Department Information System (EDIS) Project at LAC+USC
Medical Center (LAC+USC MC), Harbor-UCLA Medical Center (H-UCLA MC),
and Olive View-UCLA Medical Center (OV-UCLA MC) with a total cost of
\$316,875.



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PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

Approval of this action will enable the purchase of the required hardware for the EDIS Project at the three Department of Health Services (DHS) hospital facilities. This purchase will replace standalone servers at the three facilities with a single state-of-the-art hardware configuration installed centrally at the DHS Data Center. This configuration will support Emergency Department (ED) operations and provide the storage required for future years while increasing efficiency and enabling centralized management and services.

In addition, this purchase will provide the hardware platform required to implement Phase 2 of the EDIS, which includes clinical documentation and physician order entry, while providing DHS the opportunity to develop standardized workflows and other best practices, such as potentially automating ED clinical support processes, that will further protect patient safety in all DHS EDs. The equipment will also support Meaningful Use requirements in conjunction with the Electronic Health Record (EHR) implementation and maintain Health Insurance Portability and Accountability Act (HIPAA) requirements associated with patient and clinical records retention supporting all DHS business and hospital IT operations.

Implementation of Strategic Plan Goals

The recommended action supports Goal 1, Operational Effectiveness, of the County's Strategic Plan.

FISCAL IMPACT/FINANCING

The total one-time cost for the hardware is \$316,875 and includes standard manufacturer's warranty of three years and 24/7 on-site support.

Funding is included in DHS' Fiscal Year 2011-12 Recommended Budget.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

On October 16, 2001, your Board approved the classification categories for fixed assets and new requirements for major fixed assets (now referred to as capital assets) acquisitions requiring County departments to obtain Board approval to purchase or finance equipment with a unit cost of \$250,000 or greater, prior to submitting their request to ISD.

The County's Chief Information Officer recommends approval of this purchase and that office's analysis is attached.

CONTRACTING PROCESS

This hardware is a commodity purchase under the statutory authority of the County's Purchasing Agent. This acquisition will be competitively bid by the Purchasing Agent in accordance with the standard County purchasing policies and procedures established by ISD.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

Approval of the recommendation will ensure that the necessary hardware is purchased for the DHS, EDIS Project.

Respectfully submitted,



Mitchell H. Katz, M.D.
Director

Reviewed By:


RICHARD SANCHEZ
Chief Information Officer

MHK:RS:lr

Enclosures

c: Chief Executive Office
County Counsel
Executive Office, Board of Supervisors
Internal Services Department



RICHARD SANCHEZ
CHIEF INFORMATION OFFICER

Office of the CIO CIO Analysis

NUMBER:

CA 12-14

DATE:

05/10/12

SUBJECT:

**REQUEST TO AUTHORIZE THE PURCHASING AGENT TO PROCEED WITH ACQUISITION OF
HARDWARE FOR THE DEPARTMENT OF HEALTH SERVICES EMERGENCY DEPARTMENT
INFORMATION SYSTEM**

RECOMMENDATION:

☒ Approve ☐ Approve with Modification ☐ Disapprove

CONTRACT TYPE:

☒ New Contract ☐ Sole Source
☐ Amendment to Contract #: Enter contract #. ☐ Other: Describe contract type.

CONTRACT COMPONENTS:

☐ Software ☒ Hardware
☐ Telecommunications ☐ Professional Services

SUMMARY:

Department Executive Sponsor: Mitchell H. Katz, M.D.

Description:

Authorize the Internal Services Department (ISD), as the Purchasing Agent, to acquire and install storage and server hardware at the Martin Luther King (MLK) Data Center to support Department of Health Services' (DHS) Emergency Department Information System (EDIS), which is deployed at the three medical centers (LAC+USC Medical Center, Harbor-UCLA Medical Center, and Olive View-UCLA Medical Center). This hardware will allow DHS to establish a consolidated infrastructure for the EDIS and provide improved system availability and disaster recovery capability.

Contract Amount: **\$316,875**

Funding Source: DHS FY 2011-12 Recommended
Budget



☐ Legislative or Regulatory Mandate ☐ Subvened/Grant Funded: Enter %

Strategic and Business Analysis

PROJECT GOALS AND OBJECTIVES:

This project is a key component of the DHS' EDIS project. The goal of this project is to establish a consolidated infrastructure for the DHS' EDIS, which provides improved high availability and disaster recovery. Currently, three separate instances of the EDIS have been implemented and are hosted at LAC+USC Medical Center, Harbor-UCLA Medical Center, and Olive View-UCLA Medical Center. The installation of this hardware allows the consolidation of the system at MLK Data Center.

	<p>BUSINESS DRIVERS:</p> <p>The hardware will enable DHS to stand-up a consolidated infrastructure to support the EDIS that is used by the three Medical Center's Emergency Departments. Also, it will provide enhanced availability and disaster recovery as the EDIS is fully deployed at these facilities. The EDIS will allow DHS Emergency Departments to transition from their current mixed paper-based/electronic systems to an electronic patient record that supports better clinical decisions and improved patient care.</p>
	<p>PROJECT ORGANIZATION:</p> <p>The overall EDIS project is driven by the Administrative Staff at each medical center, as well as DHS Executive Management. The project has steering committees in each medical center, as well as a system wide steering committee that reports to DHS Executive Management. The hardware deployment will be performed by DHS Health Services Administration IT staff.</p>
	<p>PERFORMANCE METRICS:</p> <p>The metrics for this project is successful installation and testing of the consolidated infrastructure's availability and disaster recovery capabilities.</p>
	<p>STRATEGIC AND BUSINESS ALIGNMENT:</p> <p>The EDIS project is aligned with the Department's goal to improve patient care and share information between the three Emergency Departments and other providers.</p>
	<p>PROJECT APPROACH:</p> <p>The overall EDIS project is employing a two-phased implementation approach. In Phase 1, implemented and configured Wellsoft's EDIS at the three facilities with a subset of functionalities. Phase 2 will implement the EDIS' enhanced capabilities, such as clinical documentation workflows, physician order entry, physician and nursing documentation, and will integrate the EDIS with existing DHS systems. This hardware acquisition will enable DHS to establish a robust infrastructure to support the fully enabled EDIS.</p>
	<p>ALTERNATIVES ANALYZED:</p> <p>DHS is deploying a Cisco's Unified Computing System (UCS) with EMC storage at the MLK Data Center. This purchase is compatible with this infrastructure. ISD will competitively bid this hardware purchase.</p>
Technical Analysis	<p>ANALYSIS OF PROPOSED IT SOLUTION:</p> <p>The hardware purchase consists of Cisco blade servers and EMC Storage Area Network (SAN) equipment. It will upgrade the UCS at the MLK Data Center to support centralized hosting for the EDIS. Also, some of hardware will used establish a disaster recovery site within DHS.</p>

Financial Analysis	<p>BUDGET:</p> <p>Contract costs</p> <p>One-time costs:</p> <table> <tr> <td>Hardware</td><td>\$ 281,987</td></tr> <tr> <td>Software.....</td><td>\$ N/A</td></tr> <tr> <td>Services</td><td>\$ 34,888 (Installation & support)</td></tr> </table> <p>Ongoing annual costs:</p> <table> <tr> <td>Hardware</td><td>\$ N/A</td></tr> <tr> <td>Software.....</td><td>\$ N/A</td></tr> <tr> <td>Services</td><td>\$ N/A</td></tr> </table> <p>Sub-total Contract Costs: \$ 316,875</p> <p>Other County costs: N/A</p> <p>Total one-time costs: \$ 316,875</p> <p>Total ongoing annual costs: \$ 0</p> <p>Note: Hardware is covered by a three year warranty so there should be no ongoing costs for first three years of operation.</p>	Hardware	\$ 281,987	Software.....	\$ N/A	Services	\$ 34,888 (Installation & support)	Hardware	\$ N/A	Software.....	\$ N/A	Services	\$ N/A
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Software.....	\$ N/A												
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Risk Analysis	<p>RISK MITIGATION:</p> <p>There are no significant risks in this project. However, High Availability and Disaster Recovery have to be tested out. The implementation risks need be mitigated by thorough testing of the system environments.</p> <p>The Chief Information Security Officer (CISO) has reviewed this purchase and did not identify any IT security or privacy related issues.</p>												
CIO Approval	<p>PREPARED BY:  <u>6/7/12</u></p> <p>Sanmay Mukhopadhyay, Sr. Associate CIO Date</p> <hr/> <p>APPROVED:  <u>6-7-12</u></p> <p>Richard Sanchez, County CIO Date</p>												

Please contact the Office of the CIO (213.253.5600 or info@cio.lacounty.gov) for questions concerning this CIO Analysis. This document is also available online at <http://ciointranet.lacounty.gov/>